

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 100086.401C12	APPLICATION NO. 10/058,821
MAY 21 2002				APPLICANTS Orest W. Blaschuk et al.	
				FILING DATE January 29, 2002	GROUP ART UNIT Not Yet Assigned
INFORMATION DISCLOSURE STATEMENT <i>(Use separate sheets if necessary)</i>					

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SSM	AA	5,231,082	07/27/93	Schasteen	514	11	
BTH	AB	5,352,667	10/04/94	Lider et al.	514	19	
SGH	AC	5,510,628	04/23/96	Georger, Jr. et al.	257	32	
SSM	AD	5,585,351	12/17/96	Ranscht	514	12	
SSM	AE	5,591,432	01/07/97	Bronson et al.	424	130.1	
SSM	AF	5,646,250	07/08/97	Suzuki	530	350	
SSM	AG	5,665,590	09/09/97	Yang	435	6	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
SSM	AH	EP 406 428 B1	01/09/91	EPO		
SSM	AI	WO 91/04745	04/18/91	PCT		
SSM	AJ	WO 92/08731	05/29/92	PCT		
SSM	AK	WO 94/11401	05/26/94	PCT		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SSM	AL	Alexander et al., "An N-Cadherin-Like Protein Contributes to Solute Barrier Maintenance in Cultured Endothelium," <i>Journal of Cellular Physiology</i> 156: 610-618, 1993.
SSM	AM	Ali et al., "Conformationally Constrained Peptides and Semipeptides Derived from RGD as Potent Inhibitors of the Platelet Fibrinogen Receptor and Platelet Aggregation," <i>J. Med. Chem.</i> 37(6): 769-780, 1994.
SSM	AN	Beesley et al., "The post-synaptic density: putative involvement in synapse stabilization via cadherins and covalent modification by ubiquitination," <i>Biochemical Society Transactions</i> 23: 59-64, 1995.
SSM	AO	Blakemore, "Remyelination of CNS axons by Schwann cells transplanted from the sciatic nerve," <i>Nature</i> 266: 68-69, 1977.
SSM	AP	Blaschuk et al., "A novel cadherin antagonist (Exherin) blocks human ovarian tumor growth in nude mice," <i>Molecular Biology of the Cell</i> 10: 72A, November 1999.

EXAMINER	<i>SSM</i>	DATE CONSIDERED	<i>3/14/04</i>
----------	------------	-----------------	----------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	MAY 21 2002	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 100086.401C12	APPLICATION NO. 10/058,821
INFORMATION DISCLOSURE STATEMENT <i>(TRADEMARK sheets if necessary)</i>		APPLICANTS Orest W. Blaschuk et al.		
		FILING DATE January 29, 2002	GROUP ART UNIT Not Yet Assigned	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SM	BA	6,031,072		Blaschuk et al			
SSM	BB	6,169,071		Blaschuk et al			
	BC	6,207,639		Blaschuk et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
SSM	BD	WO 96/40781	12/19/96	PCT	
SSM	BE	WO 97/07209	02/27/97	PCT	
SSM	BF	WO 98/02452	01/22/98	PCT	
SSM	BG	WO 98/45319	10/15/98	PCT	
SSM	BH	WO 99/33875	7/8/99	WIPO	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SM	BI	Blaschuk and Farookhi, "Estradiol Stimulates Cadherin Expression in Rat Granulosa Cells," <i>Developmental Biology</i> 136: 564-567, 1989.
SSM	BJ	Blaschuk et al., "E-Cadherin, estrogens and cancer: is there a connection?" <i>The Canadian Journal of Oncology</i> 4(4): 291-301, 1994.
SSM	BK	Blaschuk et al., "Identification of a Cadherin Cell Adhesion Recognition Sequence," <i>Developmental Biology</i> 139: 227-229, 1990.
SSM	BL	Blaschuk et al., "Identification of a Conserved Region Common to Cadherins and Influenza Strain A Hemagglutinins," <i>J. Mol. Biol.</i> 211: 679-682, 1990.
SSM	BM	Bottenstein and Sato, "Growth of a rat neuroblastoma cell line in serum-free supplemented medium," <i>Proc. Natl. Acad. Sci. USA</i> 76(1): 514-517, 1979.
SSM	BN	Brecknell et al., "Bridge grafts of Fibroblast Growth Factor-4-Secreting Schwannoma Cells Promote Functional Axonal Regeneration in the Nigrostriatal Pathway of the Adult Rat," <i>Neuroscience</i> 74(3): 775-784, 1996.
SSM	BO	Brockes et al., "Studies on Cultured Rat Schwann Cells. I. Establishment of Purified Populations from Cultures of Peripheral Nerve," <i>Brain Research</i> 165: 105-118, 1979.
SSM	BP	Brook et al., "Morphology and Migration of Cultured Schwann Cells Transplanted Into the Fimbria and Hippocampus in Adult Rats," <i>GLIA</i> 9: 292-304, 1993.

EXAMINER *SM* DATE CONSIDERED *3/10/02*

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 100086.401C12	APPLICATION NO. 10/058,821
INFORMATION DISCLOSURE STATEMENT <i>(or Amendment if necessary)</i>		APPLICANTS Orest W. Blaschuk et al.	
		FILING DATE January 29, 2002	GROUP ART UNIT Not Yet Assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
-------------------	-----------------	------	------	-------	----------	----------------------------

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
--	-----------------	------	---------	----------------------------

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

SSM	CA	Byers et al., "Fibroblast Growth Factor Receptors Contain a Conserved HAV Region Common to Cadherins and Influenza Strain A Hemagglutinins: A Role in Protein-Protein Interactions?", <i>Developmental Biology</i> 152: 411-414, 1992.
SSM	CB	Cardarelli et al., "The Collagen Receptor $\alpha 2\beta 1$, from MG-63 and HT1080 Cells, Interacts with a Cyclic RGD Peptide," <i>The Journal of Biological Chemistry</i> 267(32): 23159-23164, 1992.
SSM	CC	Carlstedt et al., "Nerve Fibre Regeneration Across the PNS-CNS Interface at the Root-Spinal Cord Junction," <i>Brain Research Bulletin</i> 22: 93-102, 1989.
SSM	CD	Ceppek et al., "Expression of a candidate cadherin in T lymphocytes," <i>Proc. Natl. Acad. Sci. USA</i> 93: 6567-6571, 1996.
SSM	CE	Chuah et al., "Differentiation and survival of rat olfactory epithelial neurons in dissociated cell culture," <i>Developmental Brain Research</i> 60: 123-132, 1991.
SSM	CF	Craig et al., "Concept and Progress in the Development of RGD-Containing Peptide Pharmaceuticals," <i>Biopolymers (Peptide Science)</i> 37: 157-175, 1995.
SSM	CG	Doherty and Walsh, "CAM-FGF Receptor Interactions: A Model for Axonal Growth," <i>Molecular and Cellular Neuroscience</i> 8(Article No. 0049): 99-111, 1996.
SSM	CH	Doherty and Walsh, "Signal transduction events underlying neurite outgrowth stimulated by cell adhesion molecules," <i>Current Opinion in Neurobiology</i> 4: 49-55, 1994.
SSM	CI	Doherty et al., "Neurite Outgrowth in Response to Transfected N-CAM and N-Cadherin Reveals Fundamental Differences in Neuronal Responsiveness to CAMS," <i>Neuron</i> 6: 247-258, 1991.
SSM	CJ	Duncan et al., "Transplantation of oligodendrocytes and Schwann cells into the spinal cord of the myelin-deficient rat," <i>Journal of Neurocytology</i> 17: 351-360, 1988.
SSM	CK	Fok-Seang et al., "An analysis of astrocytic cell lines with different abilities to promote axon growth," <i>Brain Research</i> 689: 207-223, 1995.
SSM	CL	Fok-Seang et al., "Migration of Oligodendrocyte Precursors on Astrocytes and Meningeal Cells," <i>Developmental Biology</i> 171: 1-15, 1995.

EXAMINER	DATE CONSIDERED
----------	-----------------

3/1/02

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	MAY 21 2002	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 100086.401C12	APPLICATION NO. 10/058,821
INFORMATION DISCLOSURE STATEMENT <small>(If Additional Space is needed, attach separate sheet if necessary)</small>		APPLICANTS Orest W. Blaschuk et al.		
		FILING DATE January 29, 2002	GROUP ART UNIT Not Yet Assigned	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
-------------------	-----------------	------	------	-------	----------	----------------------------

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
--	-----------------	------	---------	----------------------------

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

SM	DA	Franz, "Percutaneous Absorption. On The Relevance Of In Vitro Data," <i>The Journal of Investigative Dermatology</i> 64(3): 190-195, 1975.
SM	DB	Franz, "The Finite Dose Technique as a Valid <i>in Vitro</i> Model for the Study of Percutaneous Absorption in Man," <i>Curr. Probl. Dermatol.</i> 7: 58-68, 1978.
SM	DC	Ghirnikar and Eng, "Astrocyte-Schwann Cell Interactions in Culture," <i>GLIA</i> 11: 367-377, 1994.
SM	DD	Gumbiner et al., "The Role of the Cell Adhesion Molecule Uvomorulin in the Formation and Maintenance of the Epithelial Junctional Complex," <i>The Journal of Cell Biology</i> 107: 1575-1587, 1988.
SM	DE	Iruela-Arispe et al., "Expression of SPARC during Development of the Chicken Chorioallantoic Membrane: Evidence for Regulated Proteolysis <i>In Vivo</i> ," <i>Molecular Biology of the Cell</i> 6: 327-343, 1995.
SM	DF	Laird et al., "Gap Junction Turnover, Intracellular Trafficking, and Phosphorylation of Connexin43 in Brefeldin A-treated Rat Mammary Tumor Cells," <i>The Journal of Cell Biology</i> 131(5): 1193-1203, 1995.
SM	DG	Lee et al., "Expression of the Homotypic Adhesion Molecule E-Cadherin by Immature Murine Thymocytes and Thymic Epithelial Cells," <i>Journal of Immunology</i> 152: 5653-5659, 1994.
SM	DH	Letourneau et al., "Interactions of Schwann Cells with Neurites and with Other Schwann Cells Involve the Calcium-dependent Adhesion Molecule, N-cadherin," <i>Journal of Neurobiology</i> 22(7): 707-720, 1991.
SM	DI	Liuzzi and Lasek, "Astrocytes Block Axonal Regeneration in Mammals by Activating the Physiological Stop Pathway," <i>Science</i> 237: 642-645, 1987.
SM	DJ	Lutz et al., "Secondary Structure of the HAV Peptide Which Regulates Cadherin-Cadherin Interaction," <i>Journal of Biomolecular Structure & Dynamics</i> 13(3): 447-455, 1995.
SM	DK	Matsuzaki et al., "cDNAs of Cell Adhesion Molecules of Different Specificity Induce Changes in Cell Shape and Border Formation in Cultured S180 Cells," <i>The Journal of Cell Biology</i> 110: 1239-1252, 1990.

EXAMINER	<i>SM</i>	DATE CONSIDERED	<i>3/1/01</i>
----------	-----------	-----------------	---------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 100086.401C12	APPLICATION NO. 10/058,821
MAY 21 2002 INFORMATION DISCLOSURE STATEMENT <small>(Use several sheets if necessary)</small>		APPLICANTS Orest W. Blaschuk et al.	
		FILING DATE January 29, 2002	GROUP ART UNIT Not Yet Assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
-------------------	-----------------	------	------	-------	----------	----------------------------

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
--	-----------------	------	---------	--------------------------

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

SSN	EA	McCarthy and Vellis, "Preparation of Separate Astroglial and Oligodendroglial Cell Cultures from Rat Cerebral Tissue," <i>J. Cell Biology</i> 85: 890-902, 1980.
SSN	EB	Mege et al., "Construction of epithelioid sheets by transfection of mouse sarcoma cells with cDNAs for chicken cell adhesion molecules," <i>Proc. Natl. Acad. Sci. USA</i> 85: 7274-7278, 1988.
SSN	EC	Moran, "The Protein Delivery Service. Advances in technologies for delivering proteins and peptides in therapeutically useful forms," <i>Pharmaceutical Forum Issue 6</i> : 4-7, 1996.
SSN	ED	Munro and Blaschuk, <i>Cell Adhesion and Invasion in Cancer Metastasis</i> , R.G. Landes Company, Austin, TX, 1996, Chapter 3, "The Structure, Function and Regulation of Cadherins," pp. 17-34.
SSN	EE	Munro et al., "Characterization of Cadherins Expressed by Murine Thymocytes," <i>Cellular Immunology</i> 169(Article No. 0123): 309-312, 1996.
SSN	EF	Newton et al., "N-Cadherin Mediates Sertoli Cell-Spermatogenic Cell Adhesion," <i>Developmental Dynamics</i> 197: 1-13, 1993.
SSN	EG	Nose et al., "Localization of Specificity Determining Sites in Cadherin Cell Adhesion Molecules," <i>Cell</i> 61: 147-155, 1990.
SSN	EH	Orr, "Angiogenesis Research Offers New Approaches to Treatment of Disease," <i>Genetic Engineering News</i> , pp. 15-16, 42, May 1, 1996.
SSN	EI	Overduin et al., "Solution Structure of the Epithelial Cadherin Domain Responsible for Selective Cell Adhesion," <i>Science</i> 267: 386-389, 1995.
SSN	EJ	Redies and Takeichi, "Cadherins in the Developing Central Nervous System: An Adhesive Code for Segmental and Functional Subdivisions," <i>Developmental Biology</i> 180: 413-423, 1996.
SSN	EK	Saffell et al., "Expression of a Dominant Negative FGF Receptor Inhibits Axonal Growth and FGF Receptor Phosphorylation Stimulated by CAMs," <i>Neuron</i> , pp. 231-242, February 1997.

EXAMINER	DATE CONSIDERED
----------	-----------------

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 100086.401C12	APPLICATION NO. 10/058,821
INFORMATION DISCLOSURE STATEMENT <small>(If Prior Art References are present, attach separate sheet if necessary)</small>		APPLICANTS Orest W. Blaschuk et al.			
		FILING DATE January 29, 2002	GROUP ART UNIT Not Yet Assigned		

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
-------------------	-----------------	------	------	-------	----------	----------------------------

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

SJM	FA	Samanen et al., "Development of a Small RGD Peptide Fibrinogen Receptor Antagonist with Potent Antiaggregatory Activity in Vitro," <i>J. Med. Chem.</i> 34(10): 3114-3125, 1991.
SJM	FB	Shapiro et al., "Structural basis of cell-cell adhesion by cadherins," <i>Nature</i> 374: 327-337, 1995.
SJM	FC	Starzinsky-Powitz, E.A., "The putative role of cell adhesion molecules in endometriosis," <i>Mol. Med. Today</i> 5(7): 304-309, 1999.
SJM	FD	Tsutsui et al., "Expression of Cadherin-Catenin Complexes in Human Leukemia Cell Lines," <i>J. Biochem.</i> 120: 1034-1039, 1996.
SJM	FE	Wickelgren, "Breaking the Skin Barrier," <i>PS</i> 12: 86-88, 1996.
SJM	FF	Willems et al., "Cadherin-dependent cell aggregation is affected by decapeptide derived from rat extracellular super-oxide dismutase," <i>FEBS Letters</i> 363: 289-292, 1995.
SJM	FG	Williams, E.A., "A novel family of cyclic peptide antagonists suggests that N-cadherin specificity is determined by amino acids that flank the HAV motif," <i>J. Biol. Chem.</i> 275(6): 4007-4012, February 11, 2000.
SJM	FH	Williams et al., "Activation of the FGF Receptor Underlies Neurite Outgrowth Stimulated by L1, N-CAM, and N-Cadherin," <i>Neuron</i> 13: 583-594, 1994.
SJM	FI	Williams et al., "The Primary Structure of Hen Ovotransferrin," <i>Eur. J. Biochem.</i> 122: 297-303, 1982.
	FJ	
	FK	
	FL	

EXAMINER

DATE CONSIDERED

3/19/04

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).